

Apr. 26. 2000 9:56AM

MARSHALL, O'TOOLE

No. 8304 P. 3/3

5. The second page in Exhibit A describes steps for growing a host cell line transformed with the completed expression construct comprising the FB 94a sequence under control of the alcohol dehydrogenase promoter as described in the specification in Example 4.

6. Pages 3 through 6 in Exhibit A set forth the final sequence determined for clone FB94a.

7. From these laboratory notebook pages, it can be seen that the subject matter of the claims in the application was completed at least before December 9, 1997.

8. This declaration is submitted in response to a non-final Office Action.

9. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Kate Loughney 4/26/00
Kate Loughney, Ph.D. Date

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to build expression construct pde 10.

use CDNA FB 94a.

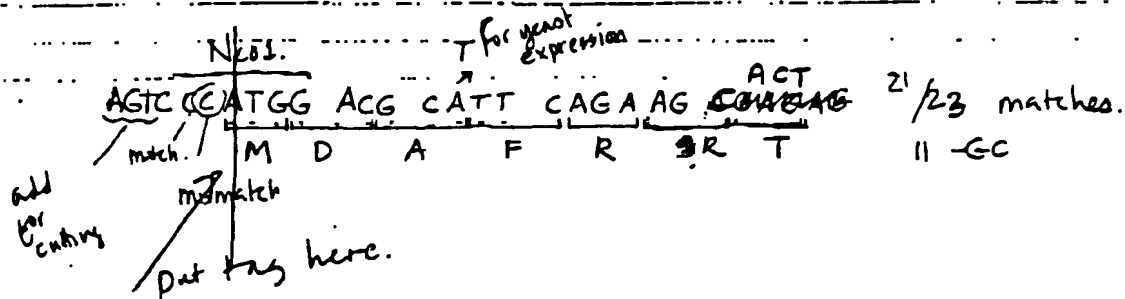
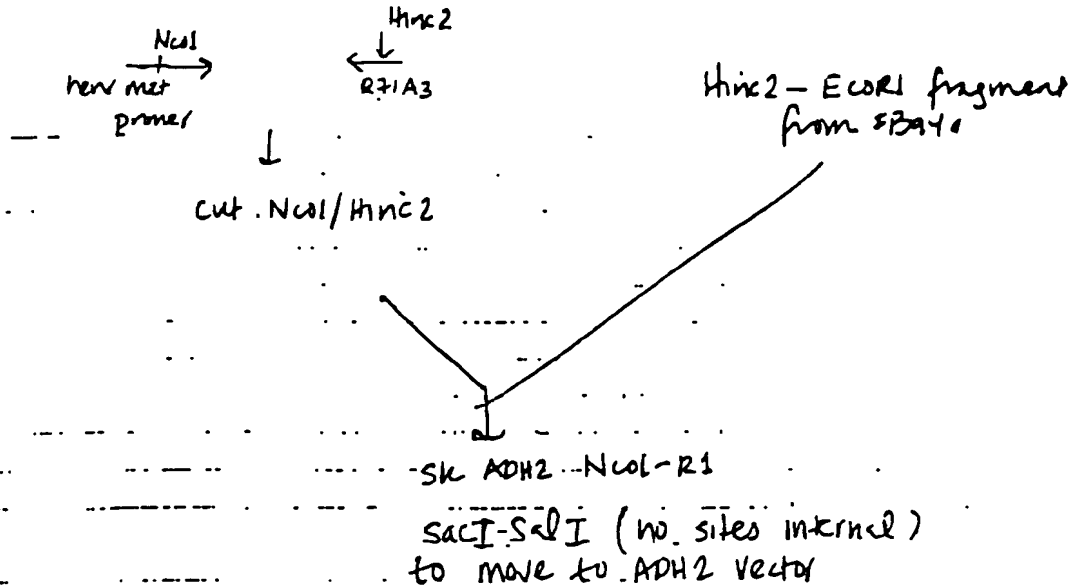
lacks yellow + green regions

loss of yellow changes frames, uses 5' met in another frame.

M D A F R ~~R~~ + P Y K \longrightarrow as FB 72.2

Sequence cDNA to confirm.

use PCR to make exact 5' end.



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Witnessed & Understood by me.

Day & Linn

Date

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From Page No. 22

Growing pde 10

shrink sc-leu

O/N 5 ml sc-leu

0.2 ml → 2x 120 ml sc-leu 3rd 30°C
O/N " "

→ spin

wash yep 3% glycerol

→ 100 ml w/107 cells yep 3% glycerol 10⁰⁰ AM x 2

— x 1.

12¹⁵ - spin out 1st 1.

25.5hr +

25.5hr - 1.

freeze in dry ice
22hr.

515 - 310

→ Lother

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Witnessed & Understood by me.

Mark Knight

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Date

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Book No. _____

TITLE FB94a. PDE1A final sequence

From Page No. _____

KL

Contig[0002]
Sequencher™ "fb94a.mac"

mc45116 fb882a1, 1 to 87

mc45117 r71a3, 1 to 323

mc44738 m13rev, 1 to 844

mc45118 fb882a1, 88 to 818

mc45119 r71a2, 123 to 723

mc45118 fb881 a1, 319 to 1118

mc45121 r71a4, 440 to 1139

mc45120 r71a1, 788 to 1453

mc44737 m13, 850 to 1548

mc45122 r71a2, 1188 to 1848

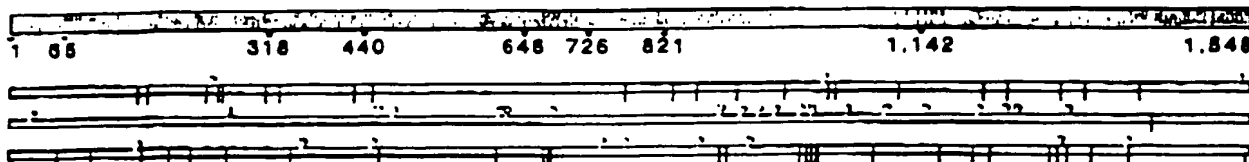


Diagram Key	
	Hole in contig
	Single fragment
	Multiple fragments same direction
	Both strands
	Both strands plus
	Start codon frame 1
	Stop codon frame 2
	Bumps on fragments show motifs, hollow rectangles show features

FB94a seq is finished.

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Visit <http://www.ncbi.nlm.nih.gov/Genbank/> to enter accession numbers

Yael Hoyer

Date

Invented by

Recorded by

Kate Longhney

Date

TITLE FB94a - DRE10 - final sequence Project No. _____
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fb94a final

insertion in FB94a.2 one of these 2 places.

CCCAAGGCCATCTACCTGGACATCGATGGACGCATTGAGAACTCCGTACAAAGTGAG 60
P K A I Y L D I D G R I Q X V Q S E
P R P S T W T S D A F R S T P Y K V R
Q G H L P G N R W T H S E A L R T K * D
ACCTGTGGCCATCAAGCAACTCTCCGAGAGAGAGAAATTAATCCAGAGCGTCTGCGCGCA 120
T C G H Q A T L E R R R I N P E R A G A
P V A I K Q L E E E E E E L I G S V L A Q
L W P S S N S P R E K N * S R A C W R R
GGTTGCAGAGCAOTTCTCAAGAGCATTCAAAATCAATGAAGTGAAGTTCGAAAGTTCGAAA 180
G C R A V L K S I Q N Q * T E S * S C K
V A E Q F S R A F K I N E L K A E V A N
L Q S S S Q E H S K S M N * K L K L Q I
TCACTTGGCTGTCTAGAGAAAGCGCTGGAATTCGAAGGACTAAAAGTGGTGGAGATTGA 240
S L G C P R E T R G I G R T K S G G D *
H L A V L E K R V E L E G L K V V E I E
T W L S * R N A W N W K D * K W W R L R
GAAATGCAAGAGTACATTAAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGAC 300
S N Q E * E * E D E G G A G G Q K Q Q D
K C K S D I K K M R E E L A A R S S R T
N A E V T L R R * G R S W R P E A A G P
CAACTGCCCCCTGTAAAGTACAGTTTGTGGATAACCACAAGAAGTTGACTCCTCGACGCGA 360
Q L P L * V O F F G * P Q E V D S S T R
N C P C K Y S F L D N H K K L T P R R D
T P P V S T V F W I T T R S * L L D A M
TGTTCACCTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGAGGCCCTGCGGAAGCC 420
T E N L P Q V P A L S R D H R G P A E A
T Y P K Y L L S P E T I E A L R K P
T L T P S T C S L Q R P S R P C G S R
GACCTTTGACGTCTGGCTTTGGGAGCCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTA 480
T L * R L A L G A Q * D A E L P G A H V
T F D V W L W E P N E M L S C L E H M Y
T L T S G F G S P M R C * A A W S T C T
CCACGACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCCACCTCAGGAGGTGGCT 540
P R P R A G Q G L Q H Q P C H P Q E V A
H D L G L V R D F S I N P V T L R R W L
T T S G W S G T S A S T L S P S G G G C
GTTCTGCGTCCACGACAACCTACAGAAACAACCCCTTCCACAACCTTCCGGCACTGCTTCTG 600
V L R P R Q L Q K Q P L P Q L P A L L L
P C V H D N Y R N N P F H N F R H C F C
S A S T T T T E T T P S T T S G T A S A

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Ant Hough

Date

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Project No. _____ Book No. _____ TITLE FB44a-PDE10- final sequence

com 216

CGTGGCCCCAGATGATGTACAGCATGGTCTGGCTCTGCAGTCTCCAGGAGAAGTTCTCACA 660
R G P D D V Q H G L A L Q S P G E V L T
V A Q M M Y S M V W L C S L Q E K F S Q
W P R * C T A W S G S A V S R R S S H K

AACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGACCATCCCGGCTA 720
N G Y P D P N D S G H L P R S G P S R L
T D I L I L M T A A I C H D L D H P G Y
R I S * S * * Q R P S A T I W T I P A T

CAACAACACGTACCAGATCAATGCCCGCACAGAGCTGGCGGTCCGCTACAATGACATCTC 780
Q Q H V P D Q C P H R A G G P L Q * H L
N N T Y Q I N A R T E L A V R Y N D I S
T T R T R S M P A Q S W R S A T M T S H

ACCGCTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAA 840
T A G E P P L R R G L P D P R R A * V Q
P L E N H H C A V A F Q I L A E P E C N
R W R T T T A P W P S R S S P S L S A T

CATCTTCTCCAACATCCCACCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATT 900
H L L Q H P T * W V Q A D P T G N D H I
I F S N I P P D G F K Q I R Q G M I T L
S S P T S H L M Q S S R S D R E * S H *

AATCTTGGCCACTGACATGGCAAGACATGCAGAAATTATGGATTCTTTCAAAGAGAAAAT 960
N L G H * H G K T C R N Y G F F Q R E N
I L A T D M A R H A E I M D S F K E K M
S W P L T W Q D M Q K L W I L S K R K W

GGAGAATTTTGACTACAGCAACGAGGAGCACATGACCCTGCTGAAGATGATTTTGATAAA 1020
Q E F * L Q Q R G A H D P A E D D F D K
E N F D Y S N E E H M T L L K M I L I K
R I L T T A T R S T * P C * R * F * * N

ATGCTGTGATATCTCTAACGAGGTCCGTCCAATGGAAGTCGAGAGCCTTGGGTGGACTG 1080
M L * Y L * R G P S N G S R R A L G G L
C C D I S N E V R P M E V A E P W V D C
A V I S L T R S V Q W K S Q S L G W T V

TTTATTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCTTCTGTGGC 1140
F I R G I F Y A E R P * E V R R P S C G
L L E E Y F M Q S D R E K S E G L P V A
Y * R N I L C R A T V R S Q K A F L W H

ACCGTTTCATGGACCGAGACAAAGTGACCAAGGCCACAGCCCAGATTGGGTTTCATCAAGTT 1200
T V H G P R Q S D Q G H S P D W V H Q V
P F M D R D K V T K A T A Q I G F I K F
R S W T E T K * P R P Q P R L G S S S L

TGTCCTGATCCCAATGTTTGAAACAGTGACCAAGCTCTTCCCCATGGTTGAGGAGATCAT 1260
C P D P N V * N S D Q A L P H G * G D H
V L I P M F E T V T K L F P M V E I M
S * S Q C L K Q * P S S S P W L R R S C

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Witnessed & Understood by *[Signature]*

Date *[Redacted]*

Invented by

Date *[Redacted]*

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Kate Loughney

Project No. _____

FB94a - PDE10 - final sequence

Book No. _____

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Page No. _____

GCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGGATAGATGACGC 1320
 A A A T L G I P R S L R G A E A D R * R
 L Q P L W E S R D R Y E E L K R I D D A
 C S H F G N P E I A T R S * S G * M T P

CATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAG 1380
 H E R V T E E D * Q L D V W G H R E V Q
 M K E L Q K K T D S L T S G A T E K S R

* K S Y R R R L T A * R L G P P R S P E
 AGGGAGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCTGAGGAAAGCGGGGGC 1440
 R E K Q R C E K Q * R R L C L R K A G G
 G R S R D V K N S E G D C A * G K R G A
 G E A E M * K T V K E T V P E E S G G R

GTGGCTGCAGTTCTGGACGGGCTGGCCGAGCTGCGCGGATCCTTGTGCAGGGAAGAGCT 1500
 V A A V L D G L A E L R G I L V Q G R A
 W L Q F W T G W P S C A G S L C R E E L
 G C S S G R A G R A R D P C A G K S C

GCCCTGGGCACCTGGCACCACAAGACCATGTTTTCTAAGAACCATTTT 1548
 A L G T W H H K T M F S K N H F
 P W A P Q T T R P C F L R T I
 P G H L A P Q D H V F * E P F

in
 FB76.2
 checked
 in
 FB94
 and
 in
 FB76.2
 poly-
 morphism

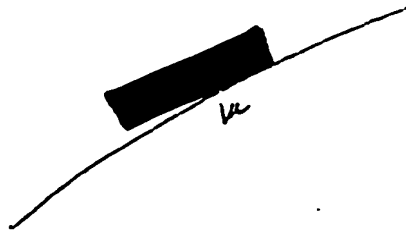
met at 26 - stop at H24.
 466 a.a.
 543w7 Da

with flastag
 475 aa M-DYKDDK-
 55N93 PDE10.

When compared to other PDEs 29/50 match PDE4's.

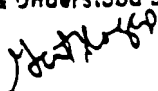
HOLD H P → CNIF

24 match to rod a in same region w/gaps



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